

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Kenneth Liberty

GENERAL INFORMATION:

Name: Westlake PVC
Address: 230 Johnson Riley Road
Date application received: October 15, 2001
SIC/Source description: 2821
EIS #: 21-157-00040
Application log number: 54216
Permit number: V-99-026 Revision 1

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
<input type="checkbox"/> Administrative	<input checked="" type="checkbox"/> Title V
<input type="checkbox"/> Minor	<input type="checkbox"/> Synthetic minor
<input checked="" type="checkbox"/> Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input checked="" type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

☐ Acid rain source
☐ Source subject to 112(r)
☐ Source applied for federally enforceable emissions cap
☐ Source provided terms for alternative operating scenarios
☐ Source subject to a MACT standard
☐ Source requested case-by-case 112(g) or (j) determination
☐ Application proposes new control technology
☒ Certified by responsible official
☐ Diagrams or drawings included
☐ Confidential business information (CBI) submitted in application
☐ Pollution Prevention Measures
☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Potential (tpy)
CO	86.5
NO _x	55.9
PM	8.3
SO ₂	19.0
VOC	3.0
HAP	1.29

These emissions reflect the increases resulting from the entire project.

SOURCE PROCESS DESCRIPTION:

Westlake PVC previously had a synthetic minor condition for a project that included two boilers and a No. 2 fuel oil tank. The boilers were to use natural gas as a primary fuel and No. 2 fuel oil as a secondary fuel. Recent economical trends has prompted Westlake to consider using an aromatic fuel oil combined with natural gas in boiler #2 that contains dual-fired jets. This removes the previous synthetic minor limit and triggers a PSD review for criteria pollutants. Only the pollutant NO_x was found to exceed the PSD increment. The PSD review included significant impact level analysis and long-range, long-term modeling on Class I areas. The modeling demonstrates that there would be no impact on human health or the environment.

EMISSION AND OPERATING CAPS DESCRIPTION:

Westlake is requesting permission to operate the #2 boiler using natural gas for 28.5 mmBtu/hr (254 mmft³/yr) and ethylene oil for 70 mmBtu/hr (4.4 mm gallons/yr) as a primary fuel. The No.2 fuel oil can be used as a secondary fuel source provided that the sulfur content analysis is supplied to the Division and all permit conditions are satisfied.

OPERATIONAL FLEXIBILITY:

Westlake has requested that in the event boiler #2 is down for repairs, the fuel jets and control devices be moved to boiler #1 and allow for the burning of natural gas and ethylene fuel oil in the same proportions as listed above.